April 13, 2012

Duke Energy
Miami Fort Generating Station
11021 Brower Road
North Bend, OH 45052

Attention: Ms. Tara Thomas
Environmental Coordinator

Re: Results – **April 2012**
Low-Level Mercury Sampling
Miami Fort Generating Station
North Bend, Ohio

In accordance with your request, URS prepared the following letter report transmitting low-level mercury test results for samples collected at the Miami Fort Generating Station located in North Bend, Ohio.

The scope of work involved the sampling of intake and discharge waters from the following sources and analysis of those samples for low-level mercury.

1. River Intake
2. Station 601 (WWT Influent)
   [Samples were collected at this station one detention time (approximately 14 hours as specified by Duke Energy) before samples collected at Outfall 608]
3. Outfall 608 (WWT Effluent)
   [Samples were collected at this outfall one detention time (approximately 14 hours as specified by Duke Energy) after samples collected at station 601]
4. Outfall 002 (Pond B Discharge)

Each sample was collected following the required Method 1669: *Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels* (Sampling Method) and analyzed by Method 1631. At the request of Duke Energy, a dissolved low-level mercury sample was collected by Method 1669 from Outfall 608 and analyzed by Method 1631. The collected dissolved sample was filtered at the laboratory utilizing 0.45 micron filtration. Also at the request of Duke Energy, total metal mercury sample aliquots (preserved) from Station 601 (Units 7 and 8) were used to have the laboratory pipet off and prepare the supernatant layer of the samples (leaving behind as much of the settled solids as possible) for analysis by Method 7470A.

Field staff from URS' Cincinnati office conducted the sampling and TestAmerica Laboratories Inc. located in North Canton, Ohio performed the analytical procedures. The analytical procedures included the analyses of a collected sample and duplicate sample

URS Corporation
36 East 7th Street, Suite 2300
Cincinnati, Ohio 45202
Tel: 513.651.3440
Fax: 1.877.660.7720 (toll free)

(duplicates collected at Outfall 608 and Outfall 002), field blank (field blanks collected at the River Intake, Outfall 608, and Outfall 002), and trip blank.

The results from the **April 2 and 3, 2012** sampling event are presented in the attached Table 1. A copy of the laboratory report is enclosed with this letter.

--ooOoo--

URS is pleased to provide continued assistance to Duke Energy in the execution of their environmental monitoring requirements. If there are any questions regarding the content of this report, please do not hesitate to contact the undersigned.

Sincerely,

URS Corporation

Michael A. Wagner
Project Manager

Dennis P. Connair, C.P.G.
Principal

MAW/DPC/Duke Energy-MFS LL Hg 2012
Job No. 14950516

TABLE 1

ANALYTICAL RESULTS
LOW-LEVEL MERCURY
RIVER INTAKE, STATION 601, OUTFALL 608, AND OUTFALL 002 (POND B)

DUKE ENERGY - MIAMI FORT STATION
NORTH BEND, OHIO

	Date Sampled / Results (ng/L, parts per trillion)					
Sample ID	**1/3-4/2012**	**2/2-3/2012**	**3/1-2/2012**	**4/2-3/2012**	**5/x/2012**	**6/x/2012**
River Intake	7.9	6.1	3.9	4.0		
Station 601 (7)	360,000	100,000	1,300,000	85,000		
Station 601 (7)*	570	6,000	54,000	68,000		
Station 601 (7)* [duplicate]	200	Not Collected	55,000	66,000		
Station 601 (8)	210,000	68,000	830,000	310,000		
Station 601 (8)*	420	5,300	110,000	75,000		
Station 601 (8)*[duplicate]	Not Collected	3,500	Not Collected	Not Collected		
Outfall 608	60	89	48	120		
Outfall 608 [duplicate]	65	85	49	120		
Outfall 608 [dissolved, 0.45 micron]	2.9	26	1.6 H	0.53 B		
APB-002	3.2	3.7	2.9	4.8		
APB-002 [duplicate]	3.3	3.5	3.6	4.6		
Field Blank (RI-FB)	<0.50	<0.50	<0.50	<0.50		
Field Blank (WWT-FB)	<0.50	<0.50	<0.50	<0.50		
Field Blank (AP-FB)	<0.50	<0.50	<0.50	<0.50		
Trip Blank	<0.50	<0.50	<0.50	<0.50		

Samples collected by URS. Samples analyzed by TestAmerica of North Canton, Ohio.
Sampling times are noted within the associated laboratory report for each collected sample
* = Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]. The aqueous layer of the sample was pipetted off and prepared, with care to leave behind as much of the settled solids as possible.
H = Sample was prepped or analyzed beyond the specified holding time B = Compound was found in blank and sample

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-9817-1
Client Project/Site: MF LL Hg 2012 - J12040203

For:
Duke Energy Corporation
139 East Fourth Street
Cincinnati, Ohio 45202

Attn: Ms. Sue Wallace

Denise Pohl

Authorized for release by:
4/13/2012 7:17:08 AM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-9817-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: MF LL Hg 2012 - J12040203

Report Number: 240-9817-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 04/04/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 19.2 C.

DISSOLVED LOW LEVEL MERCURY

Sample 608 WWT DISS (240-9817-11) was analyzed for dissolved low level mercury in accordance with EPA Method 1631E. The samples were prepared on 04/04/2012 and analyzed on 04/05/2012.

Mercury was detected in method blank PB 240-39122/1-B at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Method 1631E: The filtration blank for 608 WWT DISS contained Hg above the reporting limit (RL). There was insufficient sample to perform a re-extraction and/or re-analysis; therefore, the data have been reported.

No other difficulties were encountered during the Low Level Mercury analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Job ID: 240-9817-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

Samples 601(7)WWT TOT (240-9817-2), 601(7)WWT TOT DUP (240-9817-3) and 601(8)WWT TOTAL (240-9817-5) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/10/2012 and analyzed on 04/11/2012.

Samples 601(7)WWT TOT (240-9817-2)[10X], 601(7)WWT TOT DUP (240-9817-3)[10X] and 601(8)WWT TOTAL (240-9817-5)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 7470A: Per client instructions, the aqueous layer of the sample was pipetted off and prepared for samples, with care to leave behind as much of the settled solids as possible. 601(7)WWT TOT, 601(7)WWT TOT DUP, 601(8)WWT TOTAL

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

LOW LEVEL MERCURY

Samples 601(7)WWT (240-9817-1), 601(8)WWT (240-9817-4), RIFB (240-9817-6), RI (240-9817-7), 608 WWT FB (240-9817-8), 608 WWT (240-9817-9), 608 WWT DUP (240-9817-10), OUTFALL 002 FB (240-9817-12), OUTFALL 002 (240-9817-13), OUTFALL 002 DUP (240-9817-14) and TRIP BLANK (240-9817-15) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were prepared on 04/04/2012 and analyzed on 04/05/2012.

Samples 601(7)WWT (240-9817-1)[20000X], 601(8)WWT (240-9817-4)[100000X], 608 WWT (240-9817-9)[20X] and 608 WWT DUP (240-9817-10)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Low Level Mercury analyses.

All quality control parameters were within the acceptance limits.

Method Summary

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-9817-1	601(7)WWT	Water	04/02/12 16:55	04/04/12 09:15
240-9817-2	601(7)WWT TOT	Water	04/02/12 17:00	04/04/12 09:15
240-9817-3	601(7)WWT TOT DUP	Water	04/02/12 17:05	04/04/12 09:15
240-9817-4	601(8)WWT	Water	04/02/12 17:10	04/04/12 09:15
240-9817-5	601(8)WWT TOTAL	Water	04/02/12 17:15	04/04/12 09:15
240-9817-6	RIFB	Water	04/02/12 17:20	04/04/12 09:15
240-9817-7	RI	Water	04/02/12 17:25	04/04/12 09:15
240-9817-8	608 WWT FB	Water	04/03/12 08:15	04/04/12 09:15
240-9817-9	608 WWT	Water	04/03/12 08:20	04/04/12 09:15
240-9817-10	608 WWT DUP	Water	04/03/12 08:25	04/04/12 09:15
240-9817-11	608 WWT DISS	Water	04/03/12 08:30	04/04/12 09:15
240-9817-12	OUTFALL 002 FB	Water	04/03/12 09:45	04/04/12 09:15
240-9817-13	OUTFALL 002	Water	04/03/12 09:50	04/04/12 09:15
240-9817-14	OUTFALL 002 DUP	Water	04/03/12 09:55	04/04/12 09:15
240-9817-15	TRIP BLANK	Water	04/03/12 00:00	04/04/12 09:15

Detection Summary

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 601(7)WWT — Lab Sample ID: 240-9817-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	85000		10000		ng/L	20000		1631E	Total/NA

Client Sample ID: 601(7)WWT TOT — Lab Sample ID: 240-9817-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	68		2.0		ug/L	10		7470A	Total/NA

Client Sample ID: 601(7)WWT TOT DUP — Lab Sample ID: 240-9817-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	66		2.0		ug/L	10		7470A	Total/NA

Client Sample ID: 601(8)WWT — Lab Sample ID: 240-9817-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	310000		50000		ng/L	100000		1631E	Total/NA

Client Sample ID: 601(8)WWT TOTAL — Lab Sample ID: 240-9817-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	75		2.0		ug/L	10		7470A	Total/NA

Client Sample ID: RIFB — Lab Sample ID: 240-9817-6

No Detections

Client Sample ID: RI — Lab Sample ID: 240-9817-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	4.0		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: 608 WWT FB — Lab Sample ID: 240-9817-8

No Detections

Client Sample ID: 608 WWT — Lab Sample ID: 240-9817-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	120		10		ng/L	20		1631E	Total/NA

Client Sample ID: 608 WWT DUP — Lab Sample ID: 240-9817-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	120		10		ng/L	20		1631E	Total/NA

Client Sample ID: 608 WWT DISS — Lab Sample ID: 240-9817-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	0.53	B	0.50		ng/L	1		1631E	Dissolved

Client Sample ID: OUTFALL 002 FB — Lab Sample ID: 240-9817-12

No Detections

Detection Summary

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: OUTFALL 002 — Lab Sample ID: 240-9817-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	4.8		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: OUTFALL 002 DUP — Lab Sample ID: 240-9817-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	4.6		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-9817-15

No Detections

Client Sample Results

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 601(7)WWT
Date Collected: 04/02/12 16:55
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-1
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	85000		10000		ng/L		04/04/12 16:20	04/05/12 10:54	20000

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 601(7)WWT TOT
Date Collected: 04/02/12 17:00
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-2
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	68		2.0		ug/L		04/10/12 14:05	04/11/12 14:16	10

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 601(7)WWT TOT DUP
Date Collected: 04/02/12 17:05
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-3
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	66		2.0		ug/L		04/10/12 14:05	04/11/12 14:18	10

Client Sample Results

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 601(8)WWT
Date Collected: 04/02/12 17:10
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-4
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	310000		50000		ng/L		04/04/12 16:20	04/05/12 10:57	100000

Client Sample Results

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 601(8)WWT TOTAL
Date Collected: 04/02/12 17:15
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-5
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	75		2.0		ug/L		04/10/12 14:05	04/11/12 14:20	10

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: RIFB
Date Collected: 04/02/12 17:20
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-6
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		04/04/12 16:20	04/05/12 12:00	1

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: RI
Date Collected: 04/02/12 17:25
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-7
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.0		0.50		ng/L		04/04/12 16:20	04/05/12 11:00	1

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 608 WWT FB
Date Collected: 04/03/12 08:15
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-8
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		04/04/12 16:20	04/05/12 11:03	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 608 WWT
Date Collected: 04/03/12 08:20
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-9
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	120		10		ng/L		04/04/12 16:20	04/05/12 11:07	20

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 608 WWT DUP
Date Collected: 04/03/12 08:25
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-10
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	120		10		ng/L		04/04/12 16:20	04/05/12 11:10	20

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 608 WWT DISS
Date Collected: 04/03/12 08:30
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-11
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.53	B	0.50		ng/L		04/04/12 12:00	04/05/12 14:02	1

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: OUTFALL 002 FB
Date Collected: 04/03/12 09:45
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-12
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		04/04/12 16:20	04/05/12 12:03	1

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: OUTFALL 002
Date Collected: 04/03/12 09:50
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-13
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.8		0.50		ng/L		04/04/12 16:20	04/05/12 11:13	1

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: OUTFALL 002 DUP
Date Collected: 04/03/12 09:55
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-14
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.6		0.50		ng/L		04/04/12 16:20	04/05/12 11:17	1

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: TRIP BLANK
Date Collected: 04/03/12 00:00
Date Received: 04/04/12 09:15

Lab Sample ID: 240-9817-15
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		04/04/12 12:00	04/05/12 14:28	1

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-39104/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39630 — **Prep Batch: 39104**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		04/04/12 12:00	04/05/12 15:05	1

Lab Sample ID: LCS 240-39104/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39630 — **Prep Batch: 39104**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.80		ng/L		96	77 - 123		

Lab Sample ID: MB 240-39160/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39893 — **Prep Batch: 39160**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		04/04/12 16:20	04/05/12 12:19	1

Lab Sample ID: LCS 240-39160/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39893 — **Prep Batch: 39160**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	5.04		ng/L		101	77 - 123		

Lab Sample ID: 240-9817-14 MS — **Client Sample ID: OUTFALL 002 DUP**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39893 — **Prep Batch: 39160**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	4.6		5.00	10.3		ng/L		114	71 - 125		

Lab Sample ID: 240-9817-14 MSD — **Client Sample ID: OUTFALL 002 DUP**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39893 — **Prep Batch: 39160**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	4.6		5.00	9.72		ng/L		103	71 - 125	5.43	24

Lab Sample ID: PB 240-39122/1-B PB — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 39630 — **Prep Batch: 39104**

Analyte	PB Result	PB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.629		0.50		ng/L		04/04/12 12:00	04/05/12 14:36	1

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-39752/1-A
Matrix: Water
Analysis Batch: 39968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39752

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		04/10/12 14:05	04/11/12 10:47	1

Lab Sample ID: LCS 240-39752/2-A
Matrix: Water
Analysis Batch: 39968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39752

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.29		ug/L		86	81 - 123		

Metals

Prep Batch: 39104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9817-11	608 WWT DISS	Dissolved	Water	1631E	
240-9817-15	TRIP BLANK	Total/NA	Water	1631E	
LCS 240-39104/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-39104/1-A	Method Blank	Total/NA	Water	1631E	
PB 240-39122/1-B PB	Method Blank	Dissolved	Water	1631E	

Prep Batch: 39160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9817-1	601(7)WWT	Total/NA	Water	1631E	
240-9817-4	601(8)WWT	Total/NA	Water	1631E	
240-9817-6	RIFB	Total/NA	Water	1631E	
240-9817-7	RI	Total/NA	Water	1631E	
240-9817-8	608 WWT FB	Total/NA	Water	1631E	
240-9817-9	608 WWT	Total/NA	Water	1631E	
240-9817-10	608 WWT DUP	Total/NA	Water	1631E	
240-9817-12	OUTFALL 002 FB	Total/NA	Water	1631E	
240-9817-13	OUTFALL 002	Total/NA	Water	1631E	
240-9817-14	OUTFALL 002 DUP	Total/NA	Water	1631E	
240-9817-14 MS	OUTFALL 002 DUP	Total/NA	Water	1631E	
240-9817-14 MSD	OUTFALL 002 DUP	Total/NA	Water	1631E	
LCS 240-39160/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-39160/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 39630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9817-11	608 WWT DISS	Dissolved	Water	1631E	39104
240-9817-15	TRIP BLANK	Total/NA	Water	1631E	39104
LCS 240-39104/2-A	Lab Control Sample	Total/NA	Water	1631E	39104
MB 240-39104/1-A	Method Blank	Total/NA	Water	1631E	39104
PB 240-39122/1-B PB	Method Blank	Dissolved	Water	1631E	39104

Prep Batch: 39752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9817-2	601(7)WWT TOT	Total/NA	Water	7470A	
240-9817-3	601(7)WWT TOT DUP	Total/NA	Water	7470A	
240-9817-5	601(8)WWT TOTAL	Total/NA	Water	7470A	
LCS 240-39752/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-39752/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 39893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9817-1	601(7)WWT	Total/NA	Water	1631E	39160
240-9817-4	601(8)WWT	Total/NA	Water	1631E	39160
240-9817-6	RIFB	Total/NA	Water	1631E	39160
240-9817-7	RI	Total/NA	Water	1631E	39160
240-9817-8	608 WWT FB	Total/NA	Water	1631E	39160
240-9817-9	608 WWT	Total/NA	Water	1631E	39160
240-9817-10	608 WWT DUP	Total/NA	Water	1631E	39160
240-9817-12	OUTFALL 002 FB	Total/NA	Water	1631E	39160
240-9817-13	OUTFALL 002	Total/NA	Water	1631E	39160
240-9817-14	OUTFALL 002 DUP	Total/NA	Water	1631E	39160
240-9817-14 MS	OUTFALL 002 DUP	Total/NA	Water	1631E	39160

Metals (Continued)

Analysis Batch: 39893 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9817-14 MSD	OUTFALL 002 DUP	Total/NA	Water	1631E	39160
LCS 240-39160/2-A	Lab Control Sample	Total/NA	Water	1631E	39160
MB 240-39160/1-A	Method Blank	Total/NA	Water	1631E	39160

Analysis Batch: 39968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9817-2	601(7)WWT TOT	Total/NA	Water	7470A	39752
240-9817-3	601(7)WWT TOT DUP	Total/NA	Water	7470A	39752
240-9817-5	601(8)WWT TOTAL	Total/NA	Water	7470A	39752
LCS 240-39752/2-A	Lab Control Sample	Total/NA	Water	7470A	39752
MB 240-39752/1-A	Method Blank	Total/NA	Water	7470A	39752

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: 601(7)WWT
Lab Sample ID: 240-9817-1
Date Collected: 04/02/12 16:55
Matrix: Water
Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		20000	39893	04/05/12 10:54	CJ	TAL NC

Client Sample ID: 601(7)WWT TOT
Lab Sample ID: 240-9817-2
Date Collected: 04/02/12 17:00
Matrix: Water
Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			39752	04/10/12 14:05	CN	TAL NC
Total/NA	Analysis	7470A		10	39968	04/11/12 14:16	AS	TAL NC

Client Sample ID: 601(7)WWT TOT DUP
Lab Sample ID: 240-9817-3
Date Collected: 04/02/12 17:05
Matrix: Water
Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			39752	04/10/12 14:05	CN	TAL NC
Total/NA	Analysis	7470A		10	39968	04/11/12 14:18	AS	TAL NC

Client Sample ID: 601(8)WWT
Lab Sample ID: 240-9817-4
Date Collected: 04/02/12 17:10
Matrix: Water
Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		100000	39893	04/05/12 10:57	CJ	TAL NC

Client Sample ID: 601(8)WWT TOTAL
Lab Sample ID: 240-9817-5
Date Collected: 04/02/12 17:15
Matrix: Water
Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			39752	04/10/12 14:05	CN	TAL NC
Total/NA	Analysis	7470A		10	39968	04/11/12 14:20	AS	TAL NC

Client Sample ID: RIFB
Lab Sample ID: 240-9817-6
Date Collected: 04/02/12 17:20
Matrix: Water
Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		1	39893	04/05/12 12:00	CJ	TAL NC

Client Sample ID: RI

Lab Sample ID: 240-9817-7

Date Collected: 04/02/12 17:25

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		1	39893	04/05/12 11:00	CJ	TAL NC

Client Sample ID: 608 WWT FB

Lab Sample ID: 240-9817-8

Date Collected: 04/03/12 08:15

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		1	39893	04/05/12 11:03	CJ	TAL NC

Client Sample ID: 608 WWT

Lab Sample ID: 240-9817-9

Date Collected: 04/03/12 08:20

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		20	39893	04/05/12 11:07	CJ	TAL NC

Client Sample ID: 608 WWT DUP

Lab Sample ID: 240-9817-10

Date Collected: 04/03/12 08:25

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		20	39893	04/05/12 11:10	CJ	TAL NC

Client Sample ID: 608 WWT DISS

Lab Sample ID: 240-9817-11

Date Collected: 04/03/12 08:30

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	1631E			39104	04/04/12 12:00	CJ	TAL NC
Dissolved	Analysis	1631E		1	39630	04/05/12 14:02	CJ	TAL NC

Client Sample ID: OUTFALL 002 FB

Lab Sample ID: 240-9817-12

Date Collected: 04/03/12 09:45

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		1	39893	04/05/12 12:03	CJ	TAL NC

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Client Sample ID: OUTFALL 002

Lab Sample ID: 240-9817-13

Date Collected: 04/03/12 09:50

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		1	39893	04/05/12 11:13	CJ	TAL NC

Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-9817-14

Date Collected: 04/03/12 09:55

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39160	04/04/12 16:20	CJ	TAL NC
Total/NA	Analysis	1631E		1	39893	04/05/12 11:17	CJ	TAL NC

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-9817-15

Date Collected: 04/03/12 00:00

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			39104	04/04/12 12:00	CJ	TAL NC
Total/NA	Analysis	1631E		1	39630	04/05/12 14:28	CJ	TAL NC

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Duke Energy Corporation
Project/Site: MF LL Hg 2012 - J12040203

TestAmerica Job ID: 240-9817-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	State Program	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	L-A-B	DoD ELAP		L2315
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio VAP	State Program	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	Federal		P330-11-00328
TestAmerica North Canton	Virginia	NELAC	3	460175
TestAmerica North Canton	Washington	State Program	10	C971
TestAmerica North Canton	West Virginia DEP	State Program	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Duke Energy	Client Project Manager: Mike Wagner (URS)	Site Contact: S. Beckner	Lab Contact:	COC No:
Address: Mailing: Fort Stockton	Telephone: (513) 651-3440	Telephone: (513) 651-3440	Telephone:	1 of 2 COCs
City/State/Zip: N. Bend OH	Email: Mike.Wagner@URS.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below Standard		Walk-in client ☐
Project Name: Duke MF LL Hg 2012	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup ☐
Project Number:	Shipping/Tracking No:			Lab sampling ☐
PO #				Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	LL Hg	Total Hg	LL Hg Dissolved	Sample Specific Notes / Special Instructions:
601 (7) WWT	4/2/2012	1655		X									4		N	G	X			
601 (7) WWT TOT		1700		X					1									X		
601 (7) WWT TOT Dup		1705		X					1									X		
601 (8) WWT		1710		X									4				X			
601 (8) WWT TOT		1715		X					1									X		
RI FB		1720		X									2				X	X		
RI		1725		X									4				X			
608 WWT FB	4/3/12	0815		X									2				X			
608 WWT		0820		X									4				X			
608 WWT Dup		0825		X									4		V	V	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	URS	4/3/12 1020			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 4/4/12 915

TAL-0018 (1008)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Duke Energy	Client Project Manager: Mike Wagner (URS)	Site Contact: S. Becker	Lab Contact:	COC No:
Address: Miami Fort Station	Telephone: (513) 651-3440	Telephone: 513 651-3440	Telephone:	2 of 2 COCs
City/State/Zip: N. Bend OH	Email: mike.wagner@URS.com	Analysis Turnaround Time (In BUS days)	Analyses	For lab use only
Phone:		TAT if different from below Standard		Walk-in client ☐
Project Name: Duke MF LL Hg 2012	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup ☐ Lab sampling ☐
Project Number:	Shipping/Tracking No:			Job/SDG No.:
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite C / Grab G	LL Hg	LL Hg Total Hg	LL Hg Dissolved	Sample Specific Notes / Special Instructions:
608 WWT Diss	4/3/12	0830		X									4		N	G	X		X	
Outfall 002 FB		0945		X									2				X			
Outfall 002		0950		X									4				X			
Outfall 002 Dup		0955		X									4				X			
Trip Blank		—		X									2			—	—			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	URS	4/3/12 1500	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received in Laboratory by:	TAL	4/4/12 915

TAL-0018 (1008)

TestAmerica North Canton Sample Receipt Form/Narrative **Login # :** 9817

Client Duke Energy Site Name _____ By: _____ (Signature)

Cooler Received on 4-4-12 Opened on 4-4-12

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # S2008 Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water (None)

1. Cooler temperature upon receipt

IR GUN# 1	(CF -2°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C		
IR GUN# 4G	(CF -1°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	☐ Multiple	
IR GUN# 5G	(CF -1°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	on Back	
IR GUN# 6Y	(CF -2°C)	Observed Sample Temp. 21.2 °C	Corrected Sample Temp. 19.2 °C		

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were custody seals on the bottle(s)?	Yes	(No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
7. Could all bottle labels be reconciled with the COC?	(Yes)	No
8. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
9. Sufficient quantity received to perform indicated analyses?	(Yes)	No
10. Were sample(s) at the correct pH upon receipt?	(Yes)	No NA
11. Were VOAs on the COC?	Yes	(No)
12. Were air bubbles >6 mm in any VOA vials?	Yes	No (NA)
13. Was a trip blank present in the cooler(s)?	(Yes)	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

High temp no coolant ok

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - ~~NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH.~~ What time was preserved added to sample(s)? _____

Client ID	pH	Date	Initials
1700	≤2	4.4.12	CSL
1705	≤2	"	"
1715	≤2	"	"

Cooler #	Observed Sample Temp. °C	Corrected Sample Temp. °C	IR #	Coolant

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 240-9817-1

Login Number: 9817

List Source: TestAmerica North Canton

List Number: 1

Creator: Maddux, Ann

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	19.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	